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88049752 File: Kathie Kenny Statistical

MEMORANDUM

Mr. John Partin Mr. Raye C. King PETROLEUM INDUSTRIES! WASTE Front

File:

Date: March 2, 1949

In accordance with your instructions as of February 15, 1949, to investigate the disposal of acid sludge from oil refinery activities, I can report the following facts:

The name of the firm who is conducting this business of dumping acid sludge at sea is the California Salvage Company. This company is also tied up to a subsidiary company, named the California Ship Service Company. All sea-going equipment is kept at Berth 192, Wilmington. Their main office occupies practically the whole of the 700 block on the west side of Pocific Avance, San Pedre. These companies are owned and operated by Mr. W. H. Hutchinson, who can be reached through the telephone - TR. 4-2775.

Answering the question as to how much material is being disposed of in this manner - there are: 4 1/2 barge leads per week averaging 1600 to 1700 barrels per barge lend of soid sludge, and 500 to 600 barrels per week of spent cauntie, with an average per of 9 disposed of at sea. The distance and approximate location where the dumping is being done is as fellows:

Acid sludge is discharged at the U.S. Maval Explosive dumping area, west of Satalina Island, 50 miles from San Pedro, with a measured depth of 1100 fathoms.

Spent daustic is disposed of midway between Catalina Island and the Mainland.

The acid sludge is discharged through four 4" openings in the bettem of the barge and is pumped under-water while the barge is in motion. The length of time to discharge averages about 1 1/2 hours, during which time the barge scribes a complete circle. Spent caustic is disposed of by similar methods. As the acid sludge compact salt water, it coagulates into a solid and sinks with no flatations. Spent caustic is of identical density as the sea water and there all is no flotation.

Specifications of the Fish and Came Commission for Cumping

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1. That a sample of each load is to be analyzed by the Charles Meuntain Chemical Laboratories, with the provise that no load is to be dumped if there is any flotation.

2. All tugs and barges connected with this operation are to be painted a distinctive solar for identification purposes (red).

The location of the receiving points where the barges are being loaded is Berth 195, Wilmington. Transfer is made from California Salvage Company trucks into the barges with air-tight hose connections to keep the funes from permeating the air. These precautions also prevent spillage. Barge departures are dependent upon the time barges are loaded to at least near capacity. Charges are made according to truck haul and the schedule calls for .93 per barrel for the Texase Company, which is the shertest haul, to \$1.01 per barrel for the Standard Oil Company, El Segunde Plant, which theoretically, is the lengest haul.

The history of this disposal at sea for acid sludge started when Mr. Paul Ward, of the State Health Department, ordered the refineries to desist from discharging acid sludge onto or into the ground, and Dr. McCabe, of the Air Pollution Control District ordered the refineries to desist from burning the acid sludge.

Mr. Hutchinson was approached by a committee made up of men from the following refineries:

Texace Oil Company
Associated Oil Company
Shall Oil Company
Richfield Oil Company
General Fetrelem Company
Union Oil Company
Standard Oil Company

Mr. Hutchinson agreed to acquire the necessary equipment and to post a \$5,000 Faithful Performance Bend with the Fish and Game Commission in Sacramento. This plan also had the approval of Mr. H. G. Walters, of the U. S. Engineera. Mr. Walters being the engineer in charge of harbors in this district. The plan was put into effect in November, 1947. Since the plan was put into effect, only the Texaco Company, Union Cil Company, and the General Petroleum Company have consistently used this method of disposal.

In January, 1949, the Richfield Oil Company and the Associated Oil Company notified Mr. Butchinsen that due to the fact that they were now purchasing their lube stock instead of processing it, that they no lenger have said sludge to dispose of; this in spite of the fact that they had not been taking full advantage of this method of disposal. The Texase Company, which never did process lube stock, has for every A years disposed of approximately 2500 barrels of acid sludge per mental seems reasonable that the other companies are finding other sheeper methods of disposing of their acid sludge waste.

In Pobruary, 1949, the Texase Company proposed that Mr. Extchinson also dispose of spent caustic waste by the same method as acid sludge disposal. Upon approval of Mr. Towers, of the Fish and Game Commission, and Mr. Walters, of the U. S. Engineers, Mr. Matchinson agreed and is new handling this waste under identical specifications as acid sludge.

Just previous to the end of 1948, the Dew Chemical Tompany approached Mr. Mutchinson about disposing of a liquid waste for thou at sea. The quantity was a guaranteed 3,000 barrels per month. My. Mutchinson sent a sample to the Charles Mountain Chemical Laboratory for analysis, and they reported a flotation of 1/3 the volume, and that this 1/3 flotation was inflammable. Buder Mr. Butchinson's bond specifloations, he had to refuse to handle the effluent. Mr. Mutchinson dees not know by what method the Dow Chemical Company is disposing of this waste.

Mr. Eutohinson also informed no that he is disposing of an acid waste for the Stauffer Chemical Company, the quantity being in expess of \$60 baxrels per week.

The names of the men Mr. Mutchinson has done business with and the companies they represent in connection with acid waste disposal

Mr. Conners, of the Texas 511 Conyang

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Mr. Falmer, of the Union Oil Company Mr. McCabe, of the Richfield Oil Company Mr. Stark, of the Associated Oil Company Mr. Powell, of the Standard Oil Company

Hr. Cassagrande, of the Shell Oil Company Mr. Allan, of the Stauffer Chemical Company

Mr. Entehinson gave he to understand that he wents to cooperate with us in every way, and if we desire, he will give us specific information, given the time to compile it, but he would like the information treated as confidential. I informed him we would comply with his wishes in this motter.

· From what I have learned, there are many questions to be enswored, such as:

- Company, Associated Oil Company, Standard Oil Company and Rightield Oil Company, being disposed off
- What are the characteristics of the Dow Chemical Empany's waste and where is it now being disposed of?

 If it is necessary for the Texase Sil Sempony is disposed of spent exerties at sea, why is it not necessary for other facility is a

What other companies have similar wastes and where are they being disposed of?

When these wastes are accumulated in such large quantities shown herein, is it not possible to collectively and profitably process it and recover valuable by-products?

The oil companies were forced to adopt ocean disposal for their acid sludge against their will, by the State Health Department and the State Fish and Game Commission, but they called the squation unreasonable and entirely too expensive. Due to this fact, Mr. Mutchinson believes that some of the companies are sheating.

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